

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

(37 CFR 1.98(b))

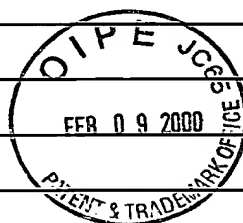
APPLICANT
Nobuyuki ISHIWATA et al.

FILING DATE
December 3, 1998

GROUP
2754

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						



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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NO.	PUBL. DATE	COUNTRY OR PATENT OFFICE	CLASS	SUB CLASS	TRANSLATION YES NO
Wsk	AL	7-262520	10/95	Japan	—	—	NO
Wsk	AM	9-288807	11/97	Japan with Eng- lish Abstract	—	—	
Wsk	AN	11-213351	8/99	Japan	—	—	NO
	AO						
	AP						

OTHER DOCUMENTS (including Author, Title, Date, Relevant Pages, Place of Publication)

Wsk	AR	"Spin Valve Read Head with Fe/Al2O3/Fe/NiFe Tunneling Junction", pp. 97-98, IBM Technical Disclosure Bulletin, Vol. 40, No. 4, April 19, 1997.
	AS	
	AT	

EXAMINER

W. K. L.

DATE CONSIDERED

4-17-00

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.